

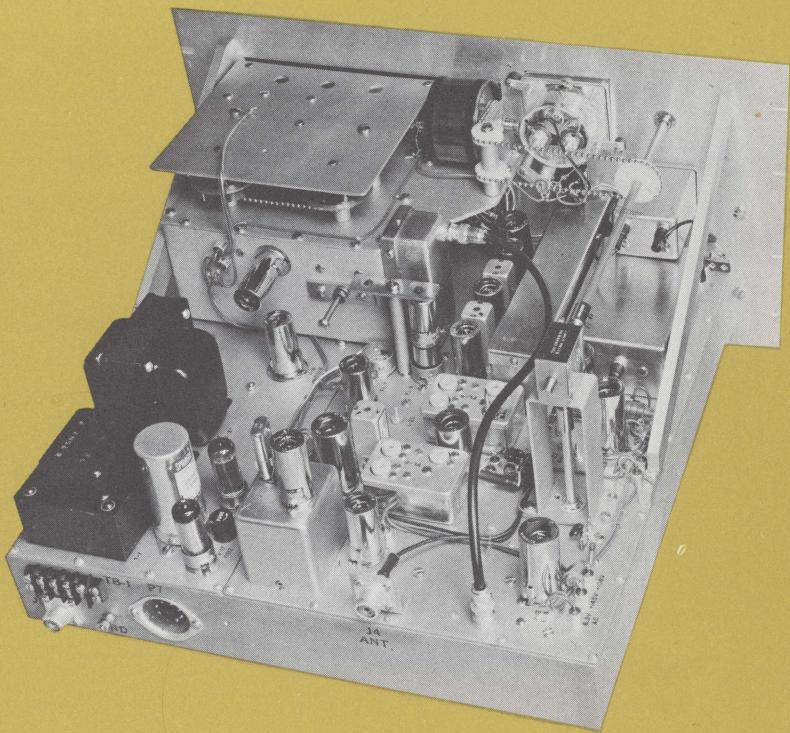


ITT Mackay Marine Communications Receiver Type 3010-C

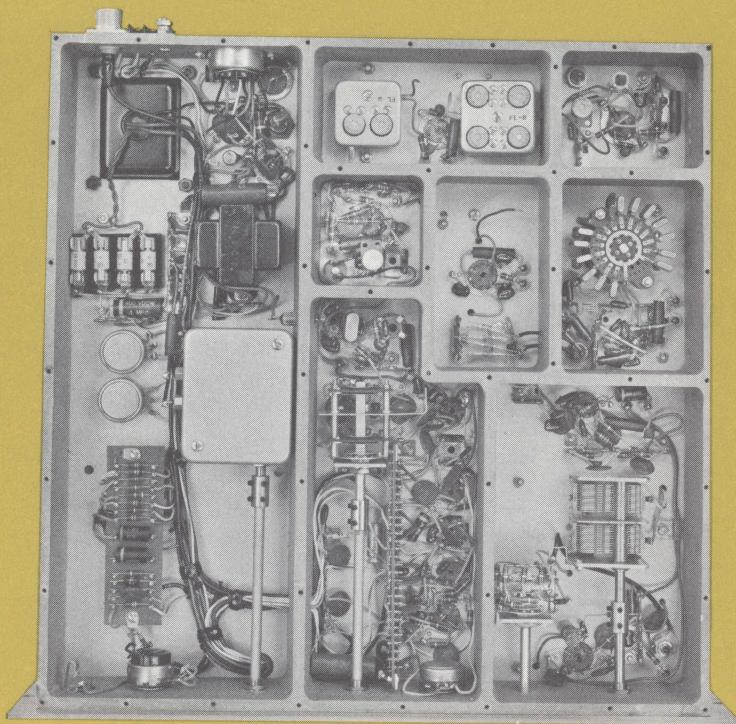
Mackay Marine Division **ITT**

MACKAY MARINE RECEIVER 3010-C

TOP VIEW OF
CHASSIS



UNDERSIDE
VIEW OF CHASSIS



BROAD FREQUENCY COVERAGE HIGHLY STABLE COMMUNICATIONS RECEIVER

FEATURES

- * Broad frequency coverage from 10 KHZ to 30 MHZ
- * High order of stability equivalent to crystal control
- * Dial calibrated directly in frequency over entire spectrum in 2000 HZ increments
- * Rugged construction on cast aluminum chassis
- * Self-contained highly stable crystal calibrator
- * Three degrees of selectivity employing both crystal and mechanical filters
- * No complicated gear trains, cams, and multi-deck band switches resulting in simple service procedures

DESCRIPTION

The ITT Mackay Marine Communications Receiver 3010-C is a carefully engineered product whose development is based upon many years of experience in the marine communications field. Although designed primarily to meet the severe requirements of shipboard operation, the features embodied in the Type 3010-C Receiver make it well suited for use in any application requiring a high quality general purpose communications receiver.

A heavy wall cast aluminum chassis provides extreme mechanical rigidity. This feature together with crystal controlled oscillators and a VFO whose variable capacitor is constructed with Invar plates results in a high degree of electrical stability despite temperature and humidity variations and in the presence of mechanical vibration.

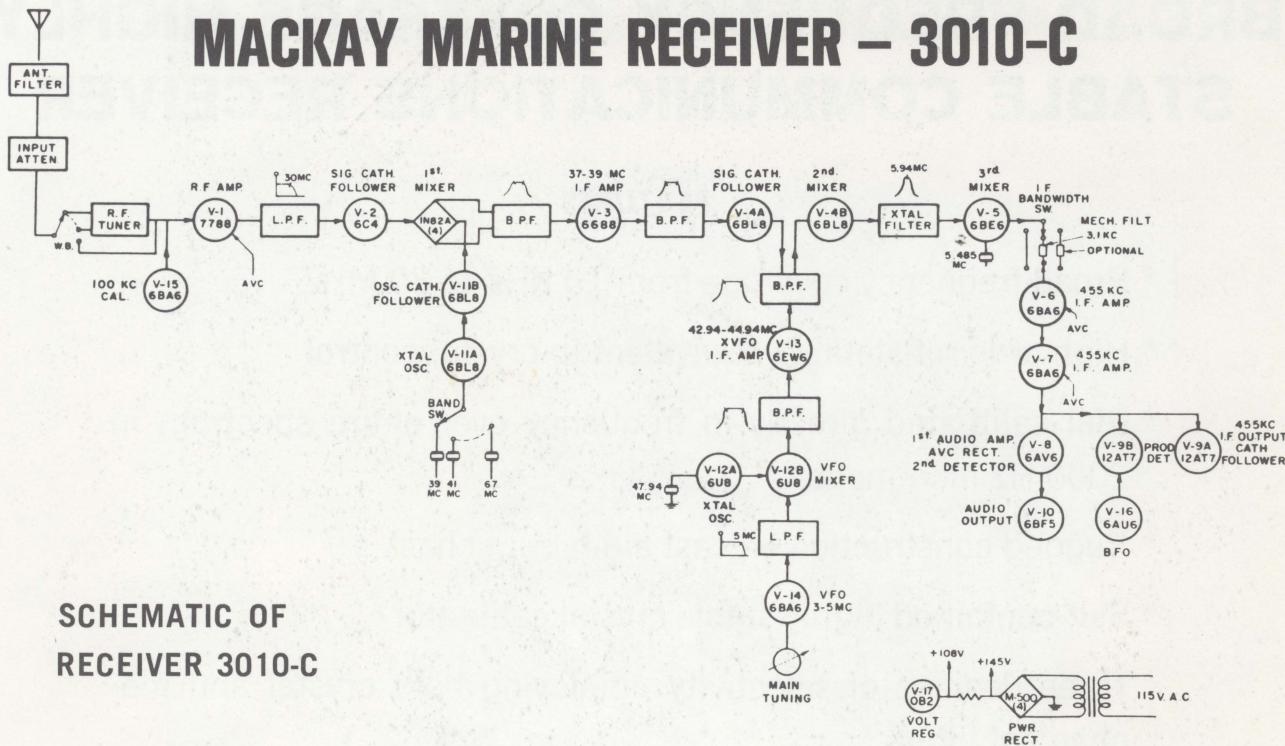
The dial calibrations indicating the frequency directly in MHZ and KHZ are printed on a 7½ foot

length of rugged fiber glass tape with major characters approximately one quarter of an inch in height. The 15 bands make the effective dial length over 100 feet with 2 KHZ increments separated by about 1/10 inch. The long effective length and large characters make the dial easy to read even at a distance of several feet.

The RF stage comprising a very high transconductance pentode can either be separately tuned or operated as a wide band amplifier. This method of tuning completely eliminates any complicated gear trains and cam mechanism and greatly facilitates service.

Provision is made for replacing the receiver VFO signal with a signal from an external source. This arrangement offers many possibilities for special operation, such as pushbutton control of certain often used frequencies, remote tuning, panoramic sweeping, etc.

MACKAY MARINE RECEIVER - 3010-C



SCHEMATIC OF
RECEIVER 3010-C

SPECIFICATIONS

Frequency Range	70 KHZ to 30 MHZ (and down to approximately 10 KHZ at reduced sensitivity)				
Frequency Coverage	15 two-megahertz bands				
Dial	90-inch film scale for each 2 MHZ band with calibration marks every 2 KHZ				
Type of Reception	AM, CW, MCW, SSB, FSK				
Type of Circuit	Triple conversion superheterodyne				
Sensitivity	A2*	AI	Frequency	Dummy	Ant. I.F.B.W.
(Max. uv for	6.0	3.0	70 KHZ-700 KHZ	IRE	3.1 KHZ
0.5 watts	1.5	1.5	700 KHZ- 4 MHZ	IRE	6 KHZ
output with	1.0	1.0	4 MHZ- 30 MHZ	75 ohms	6 KHZ
6 db (S + N)/N)	*400 HZ, 30% modulation MHZ				
Selectivity	IF Bandwidth Switch 6 db Bandwidth				
	Broad 6 KHZ				
	Medium 3.1 KHZ, mechanical filter, supplied				
	Narrow Dependent upon mechanical filter selected (optional)				

Images	All images down 80 db or more				
Automatic Gain Control	Audio output rises less than 8 db for input range 10 uv to 10,000 uv. Fast attack permits use with CW and SSB signals.				
Audio Output	1 watt into either 4 or 600 ohms at less than 10% total harmonic distortion, and 1 mw into 600 ohms				
Overall Audio Frequency Response	Within 6 db 300 HZ to 2500 HZ, 6 KHZ I.F.B.W.				
IF Output	100 mv into 75 ohms at 455 KHZ				
Limiter	Full wave audio peak limiter				
Calibrator	100 KHZ crystal calibrator which may be zero beat with WWV provides check points every 100 KHZ throughout the entire frequency range				
RF—Audio Meter	RF scale calibrated from 0-80 db above AGC threshold				
Antenna Input	Audio scale calibrated from -10 to +6 db				
	Single ended, approximately 75 ohms. Tuned input 70 KHZ to 4 MHZ designed for antenna characteristics represented by IRE dummy antenna.				
Input Attenuator	Provides approximately 0-40 db attenuation in five steps				
Input Power	95 watts at 115 V, 50-60 HZ				
Panel Size	17-1/16" x 9-9/16", or available in standard 19" rack panel				
Depth Behind Panel	16"				

ITT MACKAY MARINE, 133 TERMINAL AVE., CLARK, NEW JERSEY
A DIVISION OF
INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION

ITT Mackay Marine



MARINE RADIO RECEIVER LF/IF/HF TYPE 3010C (115 VAC)

DESCRIPTION

Mackay Marine Receiver Type 3010C, Frequency Range 70 kHz to 30 MHz, with cabinet, operating tubes, built-in speaker, 6 kHz crystal filter, 3.1 kHz and .5 kHz mechanical filters, MR-599-5 Antenna Protective Relay, and manual.

**

\$ 1,828.00 each

Less cabinet (for MRU or rack mounting complete with speaker kit) \$ 1,775.00 each

Additional to the above:

1. Spare Parts per drawing M-7513-1 (attached)	\$ 54.00 each
2. Rotary Converter (150 watt) for operation from 110 VDC	\$ 140.00 each
3. Stepdown Transformer (125VA) for operation from 220 VAC (50-60 cycles)	\$ 10.00 each

Optional:

1. Additional Manuals	\$ 8.00 each
2. External Speaker with Cabinet	\$ 30.00 each
3. Additional Filters (available on special order only)	\$ 89.00 each

Type	Bandwidth
F455J-15	1.5 kHz
F455J-21	2.1 kHz

4. Headphones with phone plug \$ 10.00 each

PRICES ARE FIRM FOR THIRTY (30) DAYS. **PLUS ANY APPLICABLE TAXES.

Order acceptance warranty, Appendix K, attached, will be considered part of this offer.

NOTE:

- A) Delivery stock (subject to prior sales)
- B) Prices F.O.B. Clark, New Jersey
- C) Installation - T/M/E
- D) Export Packing - \$20.00

060567

3010 RECEIVER
 SPARE ELECTRICAL PARTS LIST
 (100 %)

<u>Quantity Packed</u>	<u>Stock No.</u>	<u>Description</u>
5	353-51	Fuse, 1.5 A, 125 V, Slo-Blo, 31301.5
5	419-17	Lamp, 6-8V, clear, miniature bayonet base, GE #51
1	831-72	Electron Tube, type OB2
1	830-18	Electron Tube, type 6AU6
1	831-69	Electron Tube, type 6AV6
4	831-58	Electron Tube, type 6BA6
1	831-45	Electron Tube, type 6BE6
1	831-117	Electron Tube, type 6BF5
2	831-116	Electron Tube, type 6BL8
1	830-6	Electron Tube, type 6C4
1	831-118	Electron Tube, type 6EW6
1	831-56	Electron Tube, type 6U8
1	831-61	Electron Tube, type 12AT7
1	831-115	Electron Tube, type 6688
1	831-126	Electron Tube, type 7788
1		Spare Parts Box, Buffington #7

M-7513-1

ITT MACKAY MARINE

TERMS AND CONDITIONS OF PROPOSAL

APPENDIX "K"

ORDER ACCEPTANCE:

All prices quoted are exclusive of municipal, state and federal use, sales and excise taxes, if any, which taxes purchaser agrees to pay. All orders are subject to home office acceptance. All price quotations are firm for thirty (30) days only and apply only with respect to deliveries we agree to make within six (6) months from the date of order acceptance. With respect to all other deliveries, it is agreed that we may increase our prices over quoted prices up to a maximum of 3% per year. For each year thereafter from date of the order an additional 3% cumulative each year up to a period of five years. In the event that we decrease the prices prior to the shipping date, we will give buyer benefit of such decreased prices. No refund will be made for price decreases after the equipment has been shipped. Deliveries beyond five years will be subject to a separate negotiation. Terms of payment in presence of approved credit are net thirty (30) days from presentation of invoice. Acceptance of order is contingent upon customer giving us a written purchase order, the terms of which are in effect identical to the terms herein set forth. Any such order must specify a firm shipping schedule acceptable to us. We are not liable for delays or failure to deliver, install, inspect or service or maintain equipment or materials by reason of causes unforeseen or beyond our control. Cancellation of orders will not be accepted and order acceptance creates a binding contract which can be modified and cancelled only by mutual consent.

WARRANTY:

ITT Mackay Marine warrants all parts of this equipment except vacuum tubes, to be free from defects caused by faulty materials or poor workmanship, but its liability under said warranty is limited to the obligation to repair, or at Mackay's option, to replace without charge and to return F.O.B. Mackay's plant, any such parts found to be defective under normal use and service within one year from date of shipment to ultimate user, or eighteen (18) months from date of Mackay's shipment, whichever period expires, first, provided:

- (a) Mackay is promptly notified in writing upon discovery of such defects
- (b) Original parts to be returned to Mackay, transportation charges prepaid and,
- (c) Mackay's examination shall disclose to its satisfaction that such defects have not been caused by abuse after delivery. Mackay's apparatus or parts thereof which shall have been repaired, or altered outside its plant, except by Mackay's authorized service agencies, are not warranted in any respect.

The foregoing are the only warranties, express or implied, made by ITT Mackay Marine.

FORCE MAJEURE:

It is understood that the obligations of ITT Mackay Marine hereunder are subject to Force Majeure, including any delay which may be due to Government Priorities, intervention of Government Authorities, Acts of God, interruptions by reason of war or domestic disturbances, strikes, delay in obtaining any material or equipment ordered by ITT Mackay from third parties or other conditions beyond the control of ITT Mackay Marine, A Division of International Telephone and Telegraph Corporation.